

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A method for forming a film on a surface of a substrate, the film having an intermediate layer at an interface with the substrate, the method comprising:
a preliminary oxidation step of forming an oxide layer of the substrate by oxidation thereof; and

a coating step of coating the surface of the oxide layer with a coating material containing at least one of an alloy and a compound, each of which contains an element capable of forming an oxide having a low enthalpy of formation as compared to that of the oxide of the substrate,
wherein the intermediate layer comprises the oxide having a low enthalpy of formation as compared to that of the oxide of the substrate and the intermediate layer is located between the substrate and the coating of the coating material containing at least one of an alloy and a compound, and

the coating material is a composite material which comprises 50% or more of Mo(Si_{1-x}Al_x)₂ on a volume percent basis, wherein x is from 0.05 to 0.6.

2. (original): The method for forming a film, according to Claim 1, wherein the coating step further comprises a heating step.

3. (original): The method for forming a film, according to Claim 1 or 2, wherein the coating step further comprises a pressure applying step.

4. (original): The method for forming a film, according to Claim 1, wherein, in the coating step, the film is formed by one of hot press sintering, plasma spraying, hot isostatic pressing sintering, and spark plasma sintering.

5-7. (canceled).

8. (currently amended): The ~~coating material~~method for forming a film, according to Claim 1, wherein the coating material is a composite material which comprises 70% or more of $\text{Mo}(\text{Si}_{1-x}\text{Al}_x)_2$ on a volume percent basis and at least one selected from the group consisting of TaB_2 , HfB_2 , MoB , and AlN , wherein x is from 0.05 to 0.6.

9. (currently amended): The ~~coating material~~method for forming a film, according to Claim 1, wherein the coating material is a composite material which comprises 50% or more of $\text{Mo}(\text{Si}_{1-x}\text{Al}_x)_2$ on a volume percent basis and further comprises at least one selected from the group consisting of SiC and mullite, wherein x is from 0.05 to 0.6.

10-14. (canceled).

15. (new): A coating material which is a composite material which comprises 50% or more of $\text{Mo}(\text{Si}_{1-x}\text{Al}_x)_2$ on a volume percent basis, wherein x is from 0.05 to 0.6.

16. (new): The coating material according to Claim 15, wherein the composite material comprises 70% or more of $\text{Mo}(\text{Si}_{1-x}\text{Al}_x)_2$ on a volume percent basis and at least one selected from the group consisting of TaB_2 , HfB_2 , MoB , and AlN , wherein x is from 0.05 to 0.6.

17. (new): The coating material according to Claim 15, wherein the composite material further comprises at least one selected from the group consisting of SiC and mullite.

18. (new): A film on a surface of substrate, having an intermediate aluminum oxide layer at the interface with the substrate, and a coating material which comprises 50% or more of $\text{Mo}(\text{Si}_{1-x},\text{Al}_x)_2$ on a volume percent basis, wherein x is from 0.05 to 0.6.

19. (new): The film on a surface of substrate, according to claim 18, wherein the coating material comprises 70% or more of $\text{Mo}(\text{Si}_{1-x},\text{Al}_x)_2$ on a volume percent basis and at least one selected from the group consisting of TaB_2 , HfB_2 , MoB , and AIN , wherein x is from 0.05 to 0.6.

20. (new): The film on a surface of substrate, according to claim 18, wherein the coating material further comprises at least one selected from the group consisting of SiC and mullite.